

DETAILED ACTION

1. Applicant has amended claims 11, 19 and 30 in the amendment filed on 9/7/2006.

Claims 1-32 are pending in this Office Action.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Attorney Hunter E. Webb on 10/11/2006.

Art Unit: 2169

In the specification:

[0029] As shown, server 10 comprises central processing unit (CPU) 12, memory 14, bus 16, input/output (I/O) interfaces 18, external devices/resources 20 and storage unit 22. CPU 12 may comprise a single processing unit, or be distributed across one or more processing units in one or more locations.

Memory 14 may comprise any known type of data storage medium including magnetic storage medium, optical storage medium, random access memory (RAM), read-only memory (ROM), a data cache memory. Moreover, similar to CPU 12, memory 14 may reside at a single physical location, comprising one or more types of data storage, or be distributed across a plurality of physical systems in various forms.

In claims:

Please replace claims 1, 14 and 21, 22, 24, 27 with amended claims 1, 14 and 21, 22, 24, and 27.

Please cancel claims 5, 6, 8-13, 17-20, 25-26, 28-32.

1. (Currently amended) A computerized data mining system, comprising:

a central processing unit;

a memory operably associated with the central processing unit; and

a data mining system storable in the memory and executable by the central processing unit, the data mining system comprising:

a data exploration system for receiving and analyzing user data to provide statistical information about the user data, wherein the statistical information comprises data relationships, data outliers, invalid data values and standard deviations;

a customized model system for generating and ranking customized data mining models, and for executing a selected customized data mining model on the user data, wherein the customized data mining models are generated using multiple iterations based on permutations of at least one of the user data, business parameters and a set of model generation algorithms, wherein the business parameters comprise a business taxonomy and a set of model goals,

wherein the customized model system comprises:

a model generation system for generating the customized data mining models in parallel using multiple iterations based on the permutations of at least

Art Unit: 2169

one of the user data, the business parameters and the set of model generation algorithms;

a model ranking system for ranking the customized data mining models based on the business parameters, for identifying a predetermined quantity of the ranked customized data mining models, and for providing comparative data corresponding to the predetermined quantity of the ranked customized data mining models;

a customized model selection system for selecting at least one customized mining model from the predetermined quantity; and

a customized model execution system for executing the selected at least one customized data mining model on the user data; and

an existing model system for selecting at least one existing data mining model from a library of existing data mining models, and for executing the selected at least one existing data mining model in parallel on the user data, and outputting a result of the executing of the selected at least one customized data mining model to a user.

14. (Currently amended) A computer-implemented method for generating customized data mining models, comprising:

receiving and analyzing user data to provide statistical information about the user data, wherein the statistical information comprises data relationships, data outliers, invalid data values and standard deviations;

generating and ranking customized data mining models, and executing a selected customized data mining model of the customized data models on the user data, wherein the customized data mining models are generated using multiple iterations based on permutations of at least one of the user data, business parameters and a set of model generation algorithms,

wherein the generating and ranking comprises:

generating the customized data mining models in parallel using multiple iterations based on the permutations of at least one of the user data, the business parameters and the set of model generation algorithms, wherein the business parameters comprise a business taxonomy and a set of model goals,

ranking the customized data mining models based on the business parameters, identifying a predetermined quantity of the ranked customized data mining models, and providing comparative data corresponding to the predetermined quantity of the ranked customized data mining models;

selecting at least one customized mining model from the predetermined quantity; executing the selected at least one customized data mining model on the user data; and selecting at least one existing data mining model from a library of existing data mining models, and executing the selected at least one existing data mining model in parallel on the user data, and outputting a result of the executing of the selected at least one customized data mining model to a user.

21. (Currently amended) A computer-readable storage medium storing computer instructions, which executed, enables a computer system to mine data, the computer instructions comprising:

receiving and analyzing user data to provide statistical information about the user data, wherein the statistical information comprises data relationships, data outliers, invalid data values and standard deviations;

generating and ranking customized data mining models, and executing a selected customized data mining model on the user data, wherein the customized data mining models are generated using multiple iterations based on permutations of at least one of the user data, business parameters and a set of model generation algorithms,

wherein the generating and ranking comprises:

generating the customized data mining models in parallel using multiple iterations based on the permutations of at least one of the user data, the business parameters and the set of model generation algorithms, wherein the business parameters comprise a business taxonomy and a set of model goals,

ranking the customized data mining models based on the business parameters, identifying a predetermined quantity of the ranked customized data mining models, and providing comparative data corresponding to the predetermined quantity of the ranked customized data mining models;

selecting at least one customized mining model from the predetermined quantity; executing the selected at least one customized data mining model on the user data; selecting at least one existing data mining model from a library of existing data mining models, and executing the selected at least one existing data mining model in parallel on the user data; and

outputting a result of the executing of the selected at least one customized data mining model to a user.

22. (Currently amended) The computer-readable storage medium storing computer instructions of claim 21, wherein the instructions further comprising comprise: for submitting the user data; and for designating the business parameters.

Art Unit: 2169

24. (Currently amended) The computer-readable storage medium storing computer instructions of claim 21, wherein the selecting comprises:

assembling the library of existing data mining models based on the business parameters, and for displaying the library of existing data mining models and comparative data corresponding to the library of existing data mining models;

selecting the at least one existing data mining model from the library of existing data mining models;

executing the at least one existing data mining model on the user data in parallel; and

comparing results of the execution of the at least one existing data mining model.

27. (Currently amended) The computer-readable storage medium storing computer instructions of claim 21, wherein the computer instructions are implemented in a network environment.

Allowable Subject Matter

3. Claims 1-2, 4, 7, 14-16, 21-22, 24, 27 are allowed.

The prior art of record, alone or in combination, does not teach or fairly suggest the combination of steps as recited in independent claim 1, wherein " a customized model system for generating and ranking customized data mining models, and for executing a selected customized data mining model on the user data, wherein the customized data mining models are generated in parallel using multiple iterations based on permutations of at least one of the user data, business parameters and a set of model generation algorithms, wherein the business parameters comprise a business taxonomy and a set of model goals, wherein the customized model system comprises: a model ranking system for ranking the customized data mining models based on the business parameters, for identifying a predetermined quantity of the ranked customized data mining models, and for providing comparative data corresponding to the predetermined quantity of the ranked customized data mining models; a customized model selection system for selecting at least one customized mining model from the predetermined quantity"; and

The prior art of record, alone or in combination, does not teach or fairly suggest the combination of steps as recited in independent claims 14 and 21, wherein " generating the customized data mining models in parallel using multiple iterations based

Art Unit: 2169

on the permutations of at least one of the user data, the business parameters and the set of model generation algorithms, wherein the business parameters comprise a business taxonomy and a set of model goals, ranking the customized data mining models based on the business parameters, identifying a predetermined quantity of the ranked customized data mining models, and providing comparative data corresponding to the predetermined quantity of the ranked customized data mining models; selecting at least one customized mining model from the predetermined quantity; executing the selected at least one customized data mining model on the user data; and selecting at least one existing data mining model from a library of existing data mining models, and executing the selected at least one existing data mining model in parallel on the user data, and outputting a result of the executing of the selected at least one customized data mining model to a user”.

The dependent claims, bring definite, further limiting, and fully enabled by the specification are also allowed.

Contact Information

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cam Y T. Truong whose telephone number is (571) 272-4042. The examiner can normally be reached on Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Breene can be reached on (571) 272-4107. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Cam Y Truong/
Primary Examiner, Art Unit 2169